

CLASSIFICATION:

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BUDGET ITEM JUSTIFICATION SHEET											DATE:	
P-40											February 2004	
APPROPRIATION/BUDGET ACTIVITY							P-1 ITEM NOMENCLATURE					
Weapons Procurement, Navy/ Torpedoes & Related Equipment, BA-3							Torpedo MK46 Mods/MK54 Mod 0, H3F5, LI# 321500					
Program Element for Code B Items:							Other Related Program Elements					
0204228N							0604610N Lightweight Torpedo Development					
	FY 2002 and Prior	ID Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009		To Complete	Total Program
QUANTITY	17	B	29	51	94	186	215	310	349		cont.	1,251
COST (\$M)	\$45.2		\$37.8	\$42.3	\$61.4	\$76.6	\$96.3	\$115.7	\$128.7		cont.	\$604.0
Initial Spares (\$M)			\$1.6	\$1.3	\$3.4	\$2.7	\$3.4	\$3.6	\$3.9		cont.	\$0.0
ITEM DESCRIPTION/JUSTIFICATION:												
<p>The MK54 Mod 0 Lightweight Torpedo maximizes the use of NDI technologies from existing torpedo programs with state of the art COTS processors and is a modular upgrade to Lightweight Torpedo Inventory. It is comprised of the MK50 sonar, MK46 warhead and propulsion system and new COTS processors which will use tactical software derived from MK50 and MK48 ADCAP. The MK54 will provide improved performance against diesel electric submarine threats operating in shallow water.</p> <p>The total Lightweight torpedo inventory is composed of a mix of MK46 5A(S), MK46 5A(SW), MK50, and MK54.</p> <p>An additional 5 units were purchased as part of an asset exchange in FY03, bringing the total units procured to 34.</p> <p>Performance Spec Milestone: June 1996</p> <p>Technical Data Package: March 2002</p> <p>DTE: July 1999 - October 2002</p> <p>OPEVAL: August 2003 - April 2004</p>												

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WEAPONS SYSTEM COST ANALYSIS P-5							Weapon System						DATE: February 2004		
APPROPRIATION/BUDGET ACTIVITY Weapons Procurement, Navy/ Torpedoes & Related Equipment, BA-3							ID Code		P-1 ITEM NOMENCLATURE/SUBHEAD Aug-03 Torpedo MK46 Mods/MK54 /Mod 0, H3F5, LI# 321500						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
				FY 2002 and Prior			FY 2003			FY 2004			FY 2005		
				Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
F5103	Field Support Operations	B				1,561									
F5104	Hardware (Contractor, Installation, ECP, TI)			17	1,221	20,764	29	878	25,476	51	569	29,030	94	459	43,135
F5105	Fleet Exercise Systems					1,099			0			400			746
F5106	MK 54 Platform Integration					705			0			0			0
F5107	MK54/VLA Flight & Integration					174			0			0			0
F5003	Support Equipment *					4,186			478			509			4,542
F5830	Production Engineering-In-house					9,235			2,795			2,859			2,925
F5860	Accept. Test & Evaluation					6,275			8,500			8,924			9,465
F5900	Production Engineering-Contractor					1,170			597			610			600
						45,169			37,846			42,332			61,413

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* Support Equipment budget includes the cost of procurement of 2 MK54 Test Sets in FY05.

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE February 2004			
B. APPROPRIATION/BUDGET ACTIVITY Weapons Procurement, Navy					C. P-1 ITEM NOMENCLATURE Torpedo MK46 Mods/MK54 Mod 0, H3F5, LI# 321500				SUBHEAD H3F5	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
MK 54 Mod 0/ 2003	29	878	NAVSEA	n/a	SS/FP	Raytheon, Keyport, WA	Mar-03	Nov-04	Yes	
MK 54 Mod 0/ 2004	51	569	NAVSEA	n/a	SS/FP	Raytheon, Keyport, WA	Apr-04	Dec-05	Yes	
MK 54 Mod 0/ 2005	94	459	NAVSEA	n/a	option	Raytheon, Keyport, WA	Dec-04	Aug-06	Yes	
D. REMARKS										